

PATENT  
Docket No. 703100-4001

3FW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Inventors: Yuri V. Melnik, *et al.*

App. No: 10/632,736

Filed: August 1, 2003

Title: Reactor for Extended Duration Growth of  
Gallium Containing Single Crystals

Docket No. 703623-3003

Group Art Unit: 1763

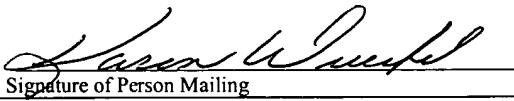
Examiner: Moore, Karla A.

CERTIFICATE OF MAILING  
UNDER 37 CFR § 1.8

Date of Deposit: September 7, 2006

I hereby certify that this document is being deposited with the  
United States Postal Service first class mail on the date indicated  
above in an envelope addressed to Commissioner for Patents, P.O.  
Box 1450, Alexandria, Virginia 22313-1450.

Type or Print Name of Person Mailing: Karen Wuerfel

  
Signature of Person Mailing

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed on the attached forms PTO/SB/08A/B are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. The Examiner is requested to make this document of record.

**I. Timing of the Supplemental Information Disclosure Statement:**

This Supplemental Information Disclosure Statement is filed:

- With the new patent application submitted herewith (37 C.F.R. § 1.97(a)).
- Within three months after the filing date of the application or within three months after the date of entry of the national stage of a PCT application as set forth in 37 C.F.R. § 1.491.

Before the mailing date of a first Office action on the merits. In the event, however, that an Office Action has crossed in the mail with this Supplemental Information Disclosure Statement, the Commissioner is hereby authorized to charge Deposit Account No. 50-2518, Docket No. 7031004001, for any fees required pursuant to 37 C.F.R. §§ 1.17(p) or 1.17(i)(1).

This Supplemental Information Disclosure Statement is filed:

After the first Office Action and more than three months after the application's filing date; or PCT national stage date of entry filing but, as far as is known to the undersigned, prior to the mailing date of either a final rejection or a notice of allowance, whichever occurs first, and the Commissioner is hereby authorized to charge Deposit Account No. 50-2518, billing reference number 700623-3003 for the fee (\$180) set forth in 37 C.F.R. § 1.17(p) and any additional required fees.

This Supplemental Information Disclosure Statement is filed:

After the mailing date of either a final rejection or a notice of allowance, whichever occurred first, and is accompanied by the fee (\$180.00) set forth in 37 C.F.R. § 1.17(i)(1) and a certification as specified in 37 C.F.R. § 1.97(e), as checked below. This document is to be considered as a petition requesting consideration of the Supplemental Information Disclosure Statement.

The undersigned certifies that:

Each item of information contained in the Supplemental Information Disclosure Statement was first cited in any communication mailed from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Supplemental Information Disclosure statement.

No item of information contained in this Supplemental Information Disclosure statement was cited in a communication mailed from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned after making reasonable inquiry, was known to any individual designated in

37 C.F.R. § 1.56(c) more than three months prior to the filing of this  
Supplemental Information Disclosure Statement.

II. Copies of the Cited Items:

Copies of the items listed on the attached form PTO/SB/08B are not enclosed.

Copies of only the following items listed on the attached Forms PTO/SB/08A/B  
are enclosed:

JP 54-112790

Translation - JP 54 112790

JP 60 065798

JP 60 250619

Translation - JP 60 250619

Copies of the items listed in the attached Form PTO/SB/08 are not supplied  
because they were previously cited by or submitted to the Patent Office in a prior  
Application No. \_\_\_\_\_, filed \_\_\_\_\_ and relied upon in this  
application for an earlier filing date under 35 U.S.C § 120. See 37 C.F.R. §  
1.98(d).

Copies of those items which are marked with an asterisk (\*\*) in the attached Form  
PTO/SB/08A/B were cited in a foreign examination report in a related case. A  
copy of the search report and the cited references not already of record in this  
application are attached hereto.

III. Concise Explanation of Relevance:

A concise explanation of relevance of the item listed on form PTO/SB/08A/B is  
not given.

A concise explanation of relevance of [some of] the items listed on Form  
PTO/SB/08A/B is in the form of an English language copy of a Search Report

from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references (copy attached).

IV. Related Applications:

Applicants bring to the Office's attention the following related application(s):

V. Conclusion:

Citation of the above documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made, other than as described above; or
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached form PTO/SB/08A/B with initials or other appropriate marks. The Commissioner is hereby authorized to charge Deposit Account No. 50-2518, billing reference number: 700623-3003 for any additional fees required in connection with the filing of this Supplemental Information Disclosure Statement.

Respectfully submitted,

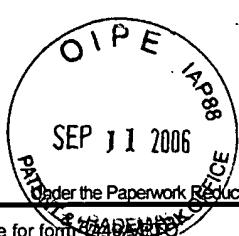
BINGHAM MCCUTCHEN LLP

Dated: September 7, 2006

By: \_\_\_\_\_

  
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Substitute for form 1749-A, 1-2001

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

1

## Complete if Known

Application Number	10/632,736
Filing Date	August 1, 2003
First Named Inventor	Yuri V. Melnik
Art Unit	1763
Examiner Name	Karla A. Moore

Attorney Docket Number 700623-3003

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	1	3,836,408	09-17-1974	Kasano	
	2	4,190,470	02-26-1980	Walline	
	3	4,419,179	12-06-1983	Nogami	
	4	5,076,860	12-31-1991	Ohba, et al.	
	5	6,001,748	12-14-1999	Tanaka	
	6	6,110,809	08-29-2000	Sze, et al.	
	7	6,290,774	09-18-2001	Solomon, et al.	
	8	6,372,041	04-16-2002	Cho, et al.	
	9	6,472,300	10-29-2002	Nikolaev, et al.	
	10	6,533,874	03-18-2003	Vaudo, et al.	
	11	6,576,054	06-10-2003	Melnik, et al.	
	12	6,566,256	05-20-2003	Solomon, et al.	
	13	6,613,143	09-02-2003	Melnik, et al.	
	14	6,656,285	12-02-2003	Melnik, et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	1	JP 54-112790	09-03-1979	Nokami, et al.		
	2	JP 60 065798	04-15-1985	Hashimoto, et al.		
	3	JP 60-250619	11-12-1985	Ito, et al.		

## OTHER – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published
	1	Translation - JP 54 112790
	2	Translation JP 60 250619

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>